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l1 and kd-tree or peano tree	1

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L6: Entry 2 of 2   File: USPT   Sep 1, 1998

US-PAT-NO: 5802492
DOCUMENT-IDENTIFIER: US 5802492 A

TITLE: Computer aided routing and positioning system

DATE-ISSUED: September 1, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DeLorme; David M.	Yarmouth	ME	N/A	N/A
Gray; Keith A.	Dresden	ME	N/A	N/A

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
DeLorme Publishing Company, Inc.	Yarmouth	ME	N/A	N/A	02

APPL-NO: 8/ 661600
DATE FILED: June 11, 1996

PARENT-CASE:
CROSS REFERENCE TO RELATED PATENT APPLICATION This patent application is a
continuation-in-part (CIP) of the David M. DeLorme et al U.S. patent application
Ser. No. 08/381,214 filed Jan. 31, 1995, now U.S. Pat. No. 5,559,707 for COMPUTER
AIDED ROUTING SYSTEM which is a CIP of the David M. DeLorme et al U.S. patent
application Ser. No. 08/265,327 filed Jun. 24, 1994, now abandoned for COMPUTER
AIDED MAP LOCATION SYSTEM and the contents of these related patent applications
are incorporated herein by reference.

INT-CL: [6] G01C 21/00, G08G 1/123
US-CL-ISSUED: 701/200; 701/201, 701/208, 701/211, 701/213, 340/990, 340/995
US-CL-CURRENT: 455/456; 340/990, 340/995, 701/201, 701/208, 701/211, 701/213
FIELD-OF-SEARCH: 364/443, 364/444.1, 364/444.2, 364/449.2, 364/449.3, 364/449.4,
364/449.5, 364/449.6, 364/449.7, 340/990, 340/995, 340/991, 340/993, 342/357,
342/457

REF-CITED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5208756	May 1993	Song	364/449.1
☐	5543789	August 1996	Behr et al.	340/995
☐	5559707	September 1996	DeLorme et al.	364/443

ART-UNIT: 364
PRIMARY-EXAMINER: Nguyen; Tan Q.

ATTY-AGENT-FIRM: Caseiro; Chris A. Bohan; Thomas L.

ABSTRACT:

A Computer Aided Routing and Positioning System (CARPS) determines a route along selected waypoints that include a travel origin and a travel destination and intermediate waypoints therebetween. The selected waypoints may be uploaded to or downloaded from various geocoding devices that utilize the Global Positioning System (GPS). A CARPS database incorporates travel information selected from a range of multimedia sources about the transportation routes, waypoints, and geographically locatable points of interest (POIs) selected by the user along the travel route. The CARPS software permits user selection of specified POI types within a user-defined region of interest and user selection of particular POIs from the selected types within the region of interest. The transportation routes, waypoints, POIs and region of interest are identifiable in the computer by coordinate locations of a selected geographical coordinate system. The CARPS software is constructed to present a user-customized travelog for preview on the computer display of the user-defined travel route. The travel planner can preview on the computer display a multimedia travelog particularly customized for the user-defined travel route including multimedia information on the transportation routes, waypoints, and POIs selected by the user. The user can engage in an iterative trip planning process of revising the route and previewing travelogs of revised travel routes until a satisfactory travel route is determined. Hardcopies of customized travel maps of the user-defined travel route can be used in conjunction with a GPS device which has been uploaded with selected waypoint data.

50 Claims, 35 Drawing figures